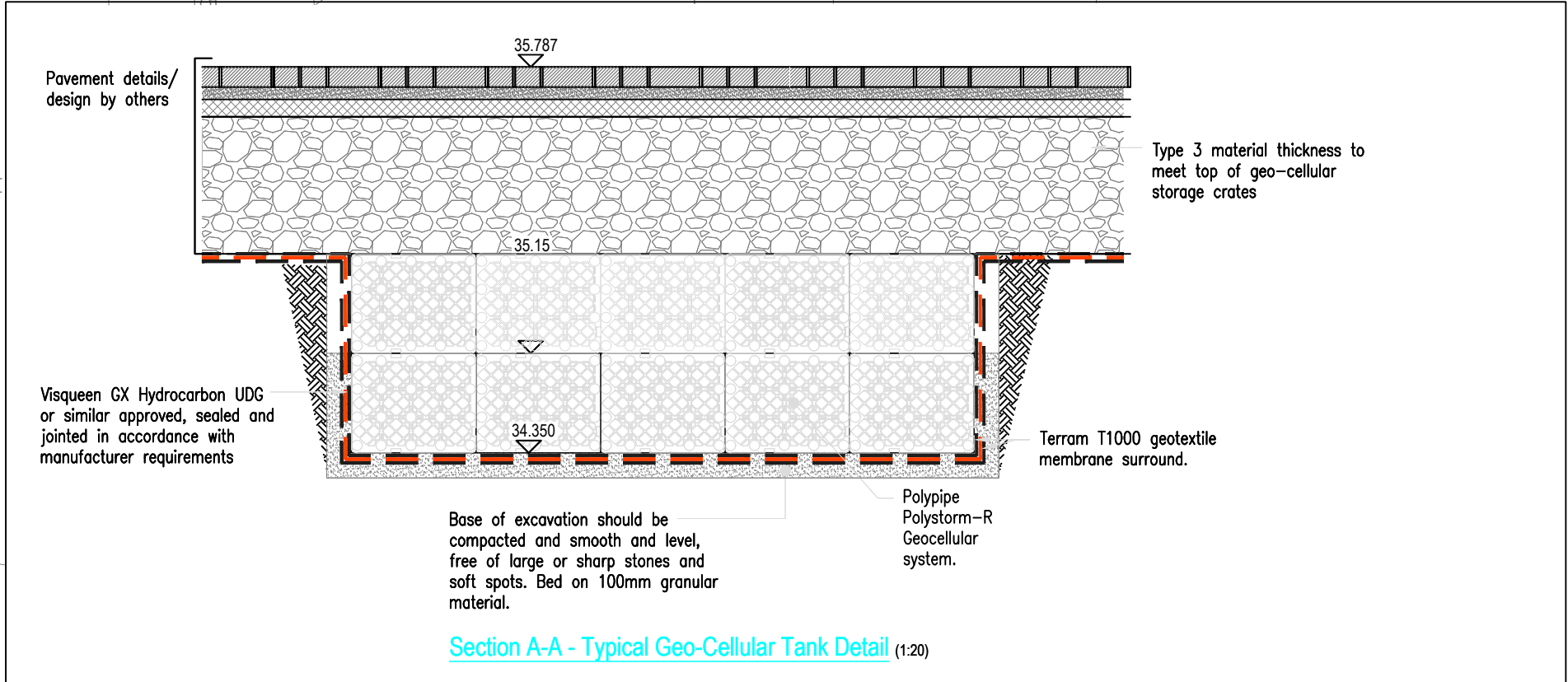




Existing 1500 combined drain to be replaced subject to approval from the Water Authority. Existing 1500 drain possibly re-used subject to condition survey and confirmation of inspection chamber depth unable to lift. Details to be reported back to the Engineer.

Hydro-brake Flow Control
Flow = 5.0 L/Sec
Head = 0.8m
Combined connection at the last manhole on site,

ATTENUATION	AT-01
Lowest Cover Level (m)	35.787
Level top of Cells (m)	35.15
Base level of Cells (m)	34.35
Pipe invert (m)	34.35
Contributing area (m2)	450
Dimension on Plan (m)	6.0x2.0x0.8(d)
Cell Thickness (m)	0.8
Void Space (%)	95
Maximum Storage Volume (m3)	9.12



North Arrow

NOTES

- The contractor shall check all tie-ins for line and level with existing before commencing any works. The Engineer shall be notified immediately, in writing, should any errors be found.
- Any discrepancies, of whatever nature, must be reported to the Engineer prior to the commencement or continuance of any further works.
- All private drainage works to be in accordance with the requirements of Building Regulations 2010, Part H, "Drainage and waste disposal", (01st October 2015).
- All pipes to be bedded and backfilled in accordance with Part H, Diagram 10. Shallow pipes shall be protected in accordance with Part H, Diagram 11.
- Unless otherwise stated, all private drainage to be 100mm diameter. Gradients have been shown where there are pipe capacity issues and these should be regarded as minimums. Unless there are constraints dictating otherwise, gradients shall generally be 1 in 60. 100mm diameter pipes shall not be laid flatter than 1 in 80, 150mm diameter pipes shall not be laid flatter than 1 in 150.
- All pipes, chambers and fittings to be installed strictly in accordance with the manufacturers instructions.
- Pipes which run adjacent to buildings shall be installed in strict accordance with Part H, Clauses 2.23 to 2.25 and Diagram 5.
- All private manholes, inspection chambers and drainage channels to comply with BS EN124. Cover strengths to be:
 - Class D400 in heavy trafficked areas (access roads, service yards etc.)
 - Class C250 in lightly trafficked areas (car parks, driveways etc.)
 - Class B125 in Non trafficked areas
 - Class A15 in landscaping areas
- All drains in the vicinity of existing or proposed trees to be constructed in accordance with the requirements of NHBC Practice Note 3.
- Private drainage frames must be tied to manhole risers by use of manufacturers ties (e.g. Polytype ref. FR500 fixing kit and FR501 black ties.) The ground works contractor will be held fully responsible for any accidents due to incorrect fitting or failure to use the correct manufacturers fixing equipment.
- All existing land drains encountered on site during construction to be re-connected.
- Should any departure from the slab level be considered, agreement shall be sought from the Engineer immediately and prior to commencement or continuance of any works, and should take full account of all restrictions to the slab level.
- Garage slabs relate to the finished level of the concrete at the front entrance of the garage.
- Where a drive slopes towards a garage there is to be a 75mm ramp up to the garage slab.
- Maximum gradients of gardens to be 1 in 6 (unless stated otherwise), except for designed banking works.
- All dimensions in metres unless otherwise stated.
- As underlying ground conditions may be variable across the site the Contractor shall undertake onsite porosity tests at the location and depth of each soakaway. Tests should be undertaken in accordance with BRE365 and results forwarded to the Engineers to allow verification of design.
- All existing services, sewers and drains indicated on this drawing and any other related drawings are shown only indicatively, and shall have their positions and level confirmed on site by the Contractor.
- The invert levels of all existing sewers, drains, ditches, tanks or other features and apparatus where a new connection is to be made shall have their precise position and level confirmed on site by the Contractor prior to commencement of any construction work. The results of the investigations shall be confirmed to MTC Engineering (Cambridge) Ltd so that the design can be verified.

Private Drainage Key

- Foul Inspection Chamber (Depth <0.6m [1 side connection])
- Foul Inspection Chamber (Depth <1.2m [2 side connections])
- Foul BR manhole PCC Ring (1.2-1.5m)
- Foul BR manhole PCC Ring (1.50-2.7m)
- Storm Inspection Chamber (Depth <0.6m [1 side connection])
- Storm Inspection Chamber (Depth <1.2m [2 side connections])
- Storm BR manhole PCC Ring (1.2-1.5m)
- Storm BR manhole PCC Ring (1.50-2.7m)
- Rodding eye with Invert Level

Surface Water Attenuation

- POLYSTORM-R (PSM1) Cellular Storage Storm Water Management System
- Cellular storage tanks suitable for vehicular loading (where applicable) with 55% voids wrapped in an impermeable geo-membrane.
- Permeable Block Paving
- Load Category 4 permeable paving (infiltration) on subgrade
- 5% soaked CBR, 80mm Permeable Block, 50mm laying course
- material comprising mostly passing 6.3mm sieve and mostly retained on a 3mm sieve. 70mm dense bitumen macadam
- hole punched with 75mm Dia holes at 750mm centres.
- 300mm Type 3 aggregate laid in layers not exceeding 100mm thick, each layer to be well compacted.

A	24.06.21	FLOOR LEVEL REVISED	JTC
REV	DATE	DESCRIPTION/REASON FOR ISSUE	APPR

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TITLE

The Old Church, Albert Hill Street
Didsbury, Manchester, M20 6RF
Proposed Drainage Plan

ORIG	J.T.C	DATE	June 2021
CHKD		SCALE	1/100 @ A1
APPR		DRAWING NO	2677-02
		REV	A

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